

TECHNICAL DATA SHEET

Recombinant Human IFN- γ (Carrier-free)

Catalog Number: 21-8319

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human IFN- γ (Carrier-free)

DESCRIPTION

Interferon-gamma is a type II interferon that exists in its mature form as a homodimer. It is produced mainly by NK cells and T lymphocytes and functions in both innate and adaptive immune responses to viral and intracellular bacterial infections.

MOLECULAR MASS

Recombinant Human Interferon-gamma is an 16.8 kDa protein containing 144 amino acid residues.

AMINO ACID SEQUENCE

MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV
KFFNSNKKKR DDFEKL TNYS VTDLNVQRKA IHELIQVMAE LSPAAGTKGR KRSQMLFQGR RASQ

SOURCE

E. Coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/ μ g of protein (<1 EU/ μ g).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Monkey

BIOACTIVITY

Assay #1: Determined by its ability to induce apoptosis in HeLa cells. The expected ED₅₀ for this effect is 5.0-10.0 ng/ml.

Assay #2: The ED₅₀ was determined by a cytotoxicity assay using HT-29 cells and is \leq 0.05 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg.

RESEARCH AREAS

AIDS/HIV; Angiogenesis/Cardiovascular; Cancer; Diabetes / Weight Regulation; Immune System; Neurobiology; Stem Cells & Differentiation; Allergy; Transplantation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Farrar MA and RD Schreiber 1993 Annu Rev Immunol 11: 571-611. Billiau A and P Matthys 2009 Cytokine Growth Factor Rev 20(2): 97-113. Pestka S, CD Krause and MR Walter 2004 Immunol Rev 202: 8-32. Gray PW and DV Goddele 1982 Nature 298: 859-863. Schroder K, PJ Hertzog, T Ravasi and DA Hume 2004 J Leukoc Biol 75: 163-189.

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